

## **CLAIM AMENDMENTS**

### **Claim Amendment Summary**

#### **Claims pending**

- Before this Amendment: Claims 1-35.
- After this Amendment: Claims 1-13, 15, and 17-33.

**Non-Elected, Canceled, or Withdrawn claims:** 14, 16, and 34-35.

**Amended claims:** 1, 15, 18, and 29.

**New claims:** None.

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### **Claims:**

1. **(Currently Amended)** A method, comprising:

**calculating a calibration correlation value to compensate for an error introduced by a scanning process implemented to produce a scanned image;**

determining a correlation value between the scanned image and an original digital image, wherein the scanned image is included in a digital file;

[and]

**subtracting the calibration correlation value from the correlation value; and**

generating a signal indicating whether the **resulting** correlation value exceeds a threshold.

**2. (Original)** The method of claim 1, wherein determining a correlation value between the scanned image and an original digital image comprises performing a pixel-by-pixel comparison of a property of the original digital image and the scanned image.

**3. (Original)** The method of claim 1, wherein determining a correlation value between the scanned image and an original digital image comprises computing a cross-product of the original digital image the scanned image.

**4. (Original)** The method of claim 1, wherein determining a correlation value between the scanned image and an original digital image comprises calculating the variance between a property of corresponding pixels in the original digital image and the scanned image.

**5. (Original)** The method of claim 4, wherein determining a correlation value between the scanned image and an original digital image comprises calculating a higher-order difference between a property of corresponding pixels in the original digital image and the scanned image.

**6. (Original)** The method of claim 1, wherein determining a correlation value between the scanned image and an original digital image comprises computing the sum of the pixel-by-pixel multiplication of a property of corresponding pixels in the original digital image and in the scanned image.

**7. (Original)** The method of claim 1, wherein generating a signal if the correlation value exceeds a threshold comprises comparing a computed correlation value to a predetermined threshold.

**8. (Original)** The method of claim 7, wherein comparing a computed correlation value to a predetermined threshold comprises comparing an  $n^{\text{th}}$  order statistic between a property of corresponding pixels in the original digital image and the scanned image to a predetermined variance parameter.

**9. (Original)** The method of claim 8, wherein the property comprises a grayscale value of a pixel.

**10. (Original)** The method of claim 8, wherein the property comprises a value indicating a color of a pixel.

**11. (Original)** The method of claim 7, wherein comparing a computed correlation value to a predetermined threshold comprises comparing the sum of the pixel-by-pixel multiplication of a property of corresponding pixels in the original digital image and the scanned image to the sum of the square of the original digital image.

**12. (Original)** The method of claim 11, wherein the property comprises a grayscale value of a pixel.

**13. (Original)** The method of claim 11, wherein the property comprises a value indicating a color of a pixel.

**14. (Canceled)**

**15. (Currently Amended)** The method of claim ~~[14]~~ **1**, wherein the calibration process comprises:

printing a copy of the original digital image;  
scanning the printed copy of the original digital image;  
calculating a calibration correlation value between the original digital image and the scanned copy of the original digital image.

**16. (Canceled)**

**17. (Original)** A computer-readable medium comprising logic instructions that, when executed on a processor, cause a computing device to implement the method of claim 1.

**18. (Currently Amended)** A computer-readable medium having computer-executable instructions that, when executed, direct a computer to:

**calibrate a calibration correlation value to compensate for an error introduced by a scanning process implemented to produce a scanned image;**

compare properties of an original digital image to properties of a scanned image of the original digital image **to produce a correlation value; [and]**

**subtract the calibration correlation value from the correlation value to calculate a difference; and**

generate a signal if ~~[a correlation value between properties of the original digital image and properties of the scanned image]~~ the difference exceeds a threshold.

**19. (Original)** The computer-readable medium of claim 18, wherein the computer-executable instructions that, when executed, direct a computer to compare properties of an original digital image to properties of a scanned image of the original digital image comprise instructions that, when executed, direct a computer to perform a pixel-by-pixel comparison of a property of the original digital image and the scanned image.

**20. (Original)** The computer-readable medium of claim 18, wherein the computer-executable instructions that, when executed, direct a computer to compare properties of an original digital image to properties of a scanned image of the original digital image comprise instructions that, when executed, direct a computer to compute a histogram representing differences in a property of the original digital image the scanned image.

**21. (Original)** The computer-readable medium of claim 18, wherein the computer-executable instructions that, when executed, direct a computer to compare properties of an original digital image to properties of a scanned image of the original digital image comprise instructions that, when executed, direct a computer to calculate an  $n^{\text{th}}$ -order statistic between a property of corresponding pixels in the original digital image and the scanned image.

**22. (Original)** The computer-readable medium of claim 18, wherein the computer-executable instructions that, when executed, direct a computer to compare properties of an original digital image to properties of a scanned image of the original digital image comprise instructions that, when executed, direct a computer to compute the sum of the pixel-by-pixel multiplication of a property of corresponding pixels in the original digital image and the scanned image.

**23. (Original)** The computer-readable medium of claim 18, wherein the computer-executable instructions that, when executed, direct a computer to generate a signal if a correlation value between properties of the original digital image and properties of the scanned image exceeds a threshold comprise instructions that, when executed, direct a computer to compare an  $n^{\text{th}}$  order statistic between a property of corresponding pixels in the original digital image and the scanned image to a predetermined variance parameter.

**24. (Original)** The computer-readable medium of claim 23, wherein the property comprises a grayscale value of a pixel.

**25. (Original)** The computer-readable medium of claim 23, wherein the property comprises a value indicating a color of a pixel.

**26. (Original)** The computer-readable medium of claim 18 , wherein the computer-executable instructions that, when executed, direct a computer to generate a signal if a correlation value between properties of the original digital image and properties of the scanned image exceeds a threshold comprise instructions that, when executed, direct a computer to compare the sum of the pixel-by-pixel multiplication of a property of corresponding pixels in the original



digital image and the scanned image to a the sum of the square a property of the original digital image.

**27. (Original)** The computer-readable medium of claim 26, wherein the property comprises a grayscale value of a pixel.

**28. (Original)** The computer-readable medium of claim 26, wherein the property comprises a value indicating a color of a pixel.

**29. (Original)** A computer program product comprising logic instructions executable on a processor, wherein the logic instructions comprise:

**A calibration module that calculates a calibration correlation value to compensate for an error introduced by a scanning process implemented to produce a scanned image;**

a scaling module that scales at least one of a first image file and a second image file such that the files are of the same dimensions; and

a correlation module that determines a correlation value between the first image file and the second image file **and subtracts the calibration correlation value from the correlation value to calculate a difference,** and generates a signal indicating whether the [~~correlation value~~] **difference** exceeds a threshold.

**30. (Original)** The computer program product of claim 29, wherein the scaling module comprises logic instructions that instruct a processor to:

divide an image file into a plurality of blocks, wherein each block includes a plurality of parameter values; and

compute an average of the parameter values in the plurality of blocks.

**31. (Original)** The computer program product of claim 30, wherein the scaling module comprises logic instructions that instruct a processor to:

apply a threshold to the average of the parameter values in the plurality of blocks.

**32. (Original)** The computer program product of claim 30, wherein the correlation module comprises logic instructions that instruct a processor to compute a variance between the first image file and the second image file.

**33. (Original)** The computer program product of claim 30, wherein the correlation module comprises logic instructions that instruct a processor to compute a cross-product of the first image file and the second image file.

**34. (Canceled)**

**35. (Canceled)**